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# Plants Manufacturing Dairy Products

by Production-Size Groups  
and Geographic Distribution

1963

UNITED STATES DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service  
Crop Reporting Board  
Washington, D.C.

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PLANTS MANUFACTURING DAIRY PRODUCTS...BY PRODUCTION-SIZE  
GROUPS AND GEOGRAPHIC DISTRIBUTION - 1963

Introduction

Plants manufacturing dairy products in the United States became fewer in number but larger during 1957-63, the Crop Reporting Board reports. Significant changes since 1957, in plant numbers and average production per plant, are shown in table 1.

Table 1.-Number of plants and average annual production per plant  
making specified dairy products, 1957 and 1963

Product	Number of plants		1963 as % of 1957	Unit	Annual average production per plant		1963 as % of 1957
	1957	1963			1957	1963	
Butter.....	2,062	1,321	64	Thou. lb.	685	1,075	157
American cheese.....	1,194	924	77	Thou. lb.	853	1,200	141
All cheese.....	1,603	1,282	80	Thou. lb.	878	1,273	145
Evaporated milk (un-skimmed case goods)....	85	63	74	Thou. lb.	28,796	30,116	105
Ice cream (regular plants)	3,395	2,476	73	Thou. gal.	179	275	154
All frozen products (regular plants).....	3,447	2,512	73	Thou. gal.	214	352	164
Creamed cottage cheese...	1,654	1,086	66	Thou. lb.	419	732	175

Most dairy plants have facilities for manufacturing more than one product, so a plant making both butter and powdered milk was counted once as a butter plant and again as a powder plant. Tables and maps for the 1963 study are based on information obtained from all dairy manufacturing plants in the United States.

Size-Group Distribution of Plants Manufacturing Dairy Products

The number of butter plants decreased 36 percent from 1957 to 1963, but average production of butter per plant increased 57 percent. In 1963, 17 percent of all creameries produced 2 million pounds or more annually, compared with 8 percent in this size group in 1957. In actual plant numbers, the 2 million-plus size group increased 27 percent, from 173 plants in 1957 to 219 in 1963. Plants producing 4 million pounds or more increased 46 percent during the 6-year period. It was the small plants producing less than 500,000 pounds of butter annually that were affected most. Plant numbers in this category decreased 46 percent, from 1,328 in 1957 to 714 in 1963. In 1957, plants producing less than a half million pounds of butter annually comprised 64 percent of all creameries in the Nation. In 1963, this size of plant accounted for 54 percent.

In the Nation's leading butter-producing region, West North Central, butter plants decreased 37 percent from 1,111 in 1957 to 700 in 1963. Plants producing over 2 million pounds increased 14 percent during the same period, but plants producing less than one-half million pounds decreased 48 percent. In the East North Central Region -- second largest butter-producing area -- plant numbers decreased 38 percent

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in the 6-year period. The total number of creameries declined from 429 in 1957 to 264 in 1963. There were 62 plants in this region producing 2 million pounds or more in 1957, increasing 21 percent -- to 75 in 1963. The number producing under a half million pounds decreased from 246 plants in 1957 to 119 in 1963, 52 percent lower.

In Minnesota, the largest butter-producing State, plant numbers decreased 34 percent, from 525 in 1957 to 349 in 1963. In 1963, there were 40 plants producing over 2 million pounds of butter, up 54 percent from the 26 plants of this capacity in 1957. The number of plants churning less than half a million pounds of butter annually dropped 53 percent during the 6-year period. In Wisconsin, the second largest butter-producing State, plant numbers decreased 30 percent -- from 202 to 142 during the period. Plants with a volume of 2 million pounds or more increased 14 percent, while plants producing less than 500,000 pounds decreased 44 percent.

Plants manufacturing American cheese totaled 924 in 1963, compared with 1,194 in 1957 -- a reduction of 23 percent. Average production per plant increased 41 percent during the 6-year period, from 853,000 pounds in 1957 to 1.2 million pounds in 1963 -- an increase of 347,000 pounds. Plants producing a million pounds or more of American cheese in the United States rose from 288 to 341 during the period -- up 18 percent -- while plants producing less than a half a million dropped 43 percent, from 534 to 306. In Wisconsin, the leading American-cheese-producing State, plant numbers decreased 28 percent. Plants with an output of a million pounds or more increased from 110 to 147 for the period, up 34 percent, but Wisconsin plants making less than one-half million pounds decreased from 350 to 179 -- down 49 percent.

Swiss cheese was made in 133 plants in 1963, down 28 percent from the 184 plants in 1957. The largest decrease -- 54 percent -- occurred in the group of plants having a capacity under 100,000 pounds. Plants with an annual volume of 2 million pounds or more increased from 11 to 13 during the 6 years.

There were 184 Italian cheese plants in 1963, a gain of 10 percent from 167 in 1957. Plants producing over 2 million pounds increased 107 percent, but the number of plants under 100,000 pounds decreased 11 percent during the 6-year period. In Wisconsin, the leading State, the number of plants producing Italian cheese rose 14 percent from the 1957 level.

The number of plants manufacturing creamed cottage cheese dropped to 1,086 in 1963, down 34 percent from the 1,654 in 1957. Production per plant during the period increased from 419,000 pounds to 732,000 pounds, up 75 percent. Plants with a volume of a million pounds or more increased 19 percent, while plants in the "under-25,000-pound" group decreased 54 percent. Plants in the East North Central Region dropped 44 percent -- from 624 in 1957 to 349 in 1963. However, for the region, plants producing over a million pounds increased from 50 to 61, a gain of 22 percent. Ohio, the State with the largest number of plants, had 233 plants in 1957 and 150 in 1963, a decline of 36 percent. Of the total plants in the State, 11 percent were in the million-plus category. In California, 55 percent of the plants produced more than a million pounds of creamed cottage cheese.

There were 11 percent fewer plants producing nonfat dry milk -- 405 in 1963, compared with 456 in 1957. Plants making 10 million pounds or more increased 144 percent, from 25 in 1957 to 61 in 1963. Plants with an output of less than a million pounds decreased 32 percent, from 143 plants to 97.

Plants manufacturing ice cream (counterfreezers excluded) decreased 27 percent, from 3,395 in 1957 to 2,476 in 1963; but production per plant increased 54 percent, 179,000 gallons to 275,000 gallons. The number of plants making a million gallons or more rose from 148 in 1957 to 191 in 1963, an increase of 29 percent. Plants in the "under-50,000-gallon" group decreased from 1,993 to 1,325, a drop of 34 percent. Ice cream plants in the East North Central Region declined from 868 to 621, down 28 percent. The Middle Atlantic, second largest region, had 608 plants in 1957 and 446 in 1963, down 27 percent. New York State had 288 in 1957, the largest number of plants in any State, but declined 23 percent, to 223 in 1963. The number of plants in Pennsylvania decreased 32 percent during 1957-63.

There were 364 plants producing condensed and evaporated milk in 1963, compared with 501 in 1957, a decline of 27 percent. Plants in the "50-million-pounds-or-more" group advanced from 9 to 13 during the period, but all other groups declined. The largest decline occurred in the "under 500,000-pound" class. There were 158 plants in this group in 1957 and 93 in 1963, a decrease of 41 percent.

Plants making evaporated whole milk totaled 63 in 1963, compared with 85 in 1957, a reduction of 26 percent; however, average production per plant rose 5 percent. Condenseries making over 55 million pounds accounted for 14 percent of the total number of plants in the Nation in 1963.

Table 2.-Plants making BUTTER: Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)										Total butter mfg. plants
	Less than 100	100-249	250-499	500-749	750-999	1,000-1,499	1,500-1,999	2,000-2,999	3,000-3,999	4,000 and over	
	<u>Number of plants</u>										
Maine.....	5	-	-	-	-	-	-	-	-	-	5
Vt. ....	3	-	1	-	-	-	1	1	-	1	7
Mass. ....	2	-	-	-	-	-	-	-	-	-	2
N. Eng. ....	10	-	1	-	-	-	1	1	-	1	14
N. Y. ....	18	2	3	7	1	4	2	5	1	4	47
N. J. ....	1	-	-	-	-	-	-	-	-	-	1
Pa. ....	33	3	3	-	-	-	1	3	1	1	45
Middle Atl. ..	52	5	6	7	1	4	3	8	2	5	93
Ohio.....	16	1	3	1	1	3	-	2	-	3	30
Ind. ....	4	4	1	3	1	2	1	1	2	2	21
Ill. ....	6	5	3	1	-	1	-	4	2	1	23
Mich. ....	17	6	5	3	1	5	2	5	2	2	48
Wis. ....	16	12	20	14	10	11	10	15	13	21	142
E. N. Cent. ..	59	28	32	22	13	22	13	27	19	29	264
Minn. ....	57	36	55	51	47	48	15	16	12	12	349
Iowa.....	33	40	31	14	10	7	11	9	8	7	170
Mo. ....	3	1	3	2	2	2	1	2	2	4	22
N. Dak. ....	7	16	29	10	4	2	2	1	-	2	73
S. Dak. ....	8	3	8	5	1	3	2	3	1	2	36
Nebr. ....	3	2	5	6	2	4	3	3	7	-	35
Kans. ....	4	1	1	-	1	1	1	4	2	-	15
W. N. Cent. ..	115	99	132	88	67	67	35	38	32	27	700
Md. ....	-	-	-	-	-	-	1	1	1	-	3
Va. ....	4	2	1	1	1	-	-	-	-	-	9
W. Va. ....	2	-	-	-	-	-	-	-	-	-	2
N. C. ....	5	-	-	-	-	-	-	-	-	-	5
S. C. ....	3	-	1	-	-	-	-	-	-	-	4
Ga. ....	1	2	-	-	-	-	-	-	-	-	3
S. Atl. ....	15	4	2	1	1	-	1	1	1	-	26
Ky. ....	4	-	1	-	-	-	1	-	1	2	9
Tenn. ....	2	2	2	-	-	-	-	1	-	1	8
Ala. ....	1	-	-	-	-	-	-	-	-	-	1
Miss. ....	1	-	-	-	2	-	1	-	-	-	4
Ark. ....	1	-	-	-	-	-	-	1	-	-	2
La. ....	1	-	-	-	-	-	1	-	-	-	2
Okla. ....	2	1	1	1	-	1	-	2	1	-	9
Tex. ....	7	1	-	2	-	1	-	-	-	-	11
S. Cent. ....	19	4	4	3	2	2	3	4	2	3	46
Mont. ....	15	10	4	-	-	-	-	-	-	-	29
Idaho.....	6	5	1	1	1	1	-	1	1	3	20
Wyo. ....	3	2	3	-	-	1	-	-	-	-	9
Colo. ....	6	3	2	2	-	-	-	2	-	-	15
N. Mex. ....	1	1	-	-	-	-	-	-	-	-	2
Ariz. ....	1	1	-	-	-	-	-	-	-	-	2
Utah.....	2	2	1	-	1	3	-	1	-	-	10
Nev. ....	1	-	-	-	-	-	-	-	-	-	1
Mount. ....	35	24	11	3	2	5	-	4	1	3	88
Wash. ....	13	7	2	2	2	1	-	1	1	2	31
Oreg. ....	11	7	4	2	1	2	-	1	-	-	28
Calif. ....	10	2	-	3	1	6	2	4	2	-	30
Pac. ....	34	16	6	7	4	9	2	6	3	2	89
Hawaii.....	1	-	-	-	-	-	-	-	-	-	1
U. S. ....	340	180	194	131	90	109	58	89	60	70	1,321

Table 3.-Plants making AMERICAN CHEESE: Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)									Total American cheese mfg. plants
	Less than 50	50-99	100-249	250-499	500-749	750-999	1,000-1,499	1,500-1,999	2,000 and over	
	<u>Number of plants</u>									
Vt. ....	2	-	2	-	1	-	-	-	1	6
N. Eng. ....	2	-	2	-	1	-	-	-	1	6
N. Y. ....	9	1	4	3	1	2	5	1	5	31
N. J. ....	-	-	1	-	-	-	-	-	-	1
Pa. ....	1	-	1	-	-	-	-	-	1	3
Middle Atl. ....	10	1	6	3	1	2	5	1	6	35
Ohio.....	2	-	-	-	-	1	2	1	4	10
Ind. ....	1	-	-	-	-	4	1	1	6	13
Ill. ....	1	2	6	4	3	6	6	6	-	34
Mich. ....	2	1	-	2	7	3	3	2	3	23
Wis. ....	19	11	32	117	119	78	80	37	30	523
E. N. Cent. ....	25	14	38	123	129	92	92	47	43	603
Minn. ....	1	-	-	4	3	-	1	4	5	18
Iowa.....	2	1	2	7	6	5	6	4	12	45
Mo. ....	-	-	-	1	1	1	5	4	14	26
N. Dak. ....	2	-	-	-	1	2	2	5	-	12
S. Dak. ....	1	-	-	1	2	3	1	1	2	11
Nebr. ....	1	-	-	-	1	1	-	1	1	5
Kans. ....	3	-	1	1	1	2	1	2	3	14
W. N. Cent. ....	10	1	3	14	15	14	16	21	37	131
Va. ....	-	-	-	1	-	-	-	-	1	2
N. C. ....	-	-	-	-	-	-	-	-	1	1
Ga. ....	-	-	-	-	-	-	1	-	-	1
S. Atl. ....	-	-	-	1	-	-	1	-	2	4
Ky. ....	1	1	-	-	-	1	-	2	12	17
Tenn. ....	-	1	1	-	1	-	1	8	6	18
Ala. ....	-	-	-	-	-	1	2	-	-	3
Miss. ....	1	-	1	1	-	1	2	1	2	9
Ark. ....	-	1	1	1	1	-	1	-	2	7
La. ....	2	-	1	-	-	-	-	-	-	3
Okla. ....	1	-	-	-	-	2	-	-	2	5
Tex. ....	1	-	1	-	-	3	1	-	-	6
S. Cent. ....	6	3	5	2	2	8	7	11	24	68
Mont. ....	1	-	1	-	1	-	2	-	-	5
Idaho.....	1	1	-	4	2	-	-	6	5	19
Wyo. ....	1	-	-	-	-	-	-	-	-	1
Colo. ....	1	1	1	2	-	-	-	-	-	5
Utah.....	1	1	3	3	3	2	-	-	-	13
Nev. ....	-	1	-	-	-	-	-	-	-	1
Mount. ....	5	4	5	9	6	2	2	6	5	44
Wash. ....	1	-	1	1	1	-	2	-	-	6
Oreg. ....	1	-	1	4	1	1	11	-	1	20
Calif. ....	1	-	3	1	1	1	-	-	-	7
Pac. ....	3	-	5	6	3	2	13	-	1	33
U. S. ....	61	23	64	158	157	120	136	86	119	924



Table 4.-Plants making SWISS CHEESE (including block):  
Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)									Total Swiss cheese plants
	Less than 50	50-99	100-174	175-249	250-499	500-749	750-999	1,000-1,999	2,000 and over	
	<u>Number of plants</u>									
N. Y. ....	1	1	-	-	1	-	-	-	-	3
Pa. ....	-	-	1	1	-	2	-	-	1	5
Middle Atl. ..	1	1	1	1	1	2	-	-	1	8
Ohio.....	1	-	3	3	10	4	-	2	-	23
Ind. ....	1	-	-	-	-	-	-	-	-	1
Ill. ....	1	-	1	1	2	2	-	-	5	12
Mich. ....	1	-	-	-	-	-	-	-	-	1
Wis. ....	8	1	18	13	23	11	1	3	1	79
E. N. Cent. ..	12	1	22	17	35	17	1	5	6	116
Iowa.....	1	-	-	-	-	-	-	-	-	1
W. N. Cent. ..	1	-	-	-	-	-	-	-	-	1
Tenn. ....	-	-	-	-	-	-	-	-	1	1
Ark. ....	-	-	-	-	-	-	-	-	1	1
S. Cent. ....	-	-	-	-	-	-	-	-	2	2
Idaho.....	-	-	-	-	1	1	-	-	2	4
Wyo. ....	-	-	-	-	-	-	-	-	1	1
Utah.....	-	-	-	-	-	-	-	-	1	1
Mount. ....	-	-	-	-	1	1	-	-	4	6
U. S. ....	14	2	23	18	37	20	1	5	13	133

Table 5.-Plants making ITALIAN CHEESE (all varieties):  
Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)									Total Italian cheese plants
	Less than 50	50-99	100-174	175-249	250-499	500-749	750-999	1,000-1,999	2,000 and over	
	<u>Number of plants</u>									
Vt. ....	-	-	-	1	2	-	-	1	1	5
Mass. ....	1	-	-	1	1	-	-	2	-	5
R. I. ....	-	-	-	-	1	-	-	-	-	1
Conn. ....	-	-	-	-	2	-	-	1	-	3
N. Eng. ....	1	-	-	2	6	-	-	4	1	14
N. Y. ....	6	5	5	2	3	1	2	2	6	32
N. J. ....	4	-	2	1	1	2	-	1	-	11
Pa. ....	1	3	1	2	4	-	1	1	2	15
Middle Atl. ..	11	8	8	5	8	3	3	4	8	58
Ohio.....	-	-	1	-	1	-	-	-	1	3
Ind. ....	-	1	-	-	-	-	-	1	-	2
Ill. ....	2	-	2	-	2	4	2	3	1	16
Mich. ....	1	-	-	1	2	1	-	-	1	6
Wis. ....	7	2	1	2	4	10	7	17	16	66
E. N. Cent. ..	10	3	4	3	9	15	9	21	19	93
Minn. ....	-	1	-	-	-	-	-	-	-	1
Iowa.....	1	-	-	-	-	-	1	-	-	2
Mo. ....	1	-	-	-	-	-	-	-	-	1
N. Dak. ....	-	1	-	-	-	-	-	-	-	1
W. N. Cent. ..	2	2	-	-	-	-	1	-	-	5
Ark. ....	-	-	-	-	1	-	-	-	-	1
S. Cent. ....	-	-	-	-	1	-	-	-	-	1
Mont. ....	-	-	-	-	-	1	-	-	-	1
Colo. ....	-	-	-	-	-	1	-	-	-	1
Mount. ....	-	-	-	-	-	2	-	-	-	2
Wash. ....	-	-	-	-	1	1	-	-	-	2
Calif. ....	3	1	-	1	1	2	-	-	1	9
Pac. ....	3	1	-	1	2	3	-	-	1	11
U. S. ....	27	14	12	11	26	23	13	29	29	184

Table 6.-All plants making CHEESE (excluding cottage):  
Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)									Total cheese mfg. plants
	Less than 50	50-99	100-249	250-499	500-749	750-999	1,000-1,499	1,500-1,999	2,000 and over	
	<u>Number of plants</u>									
N. H. ....	1	-	-	-	-	-	-	-	-	1
Vt. ....	1	-	2	2	-	-	1	1	2	9
Mass. ....	-	-	1	3	-	-	2	-	-	6
R. I. ....	-	-	-	1	-	-	-	-	-	1
Conn. ....	1	-	-	2	-	-	1	-	-	4
N. Eng. ....	3	-	3	8	-	-	4	1	2	21
N. Y. ....	22	8	12	9	3	6	6	2	17	85
N. J. ....	4	-	4	1	2	-	-	1	-	12
Pa. ....	1	4	8	4	2	1	2	1	4	27
Middle Atl. ..	27	12	24	14	7	7	8	4	21	124
Ohio.....	3	-	5	11	5	1	1	2	6	34
Ind. ....	1	-	2	-	-	1	-	2	9	15
Ill. ....	3	1	3	10	7	8	12	10	6	60
Mich. ....	5	1	1	6	8	3	3	2	4	33
Wis. ....	10	9	71	160	144	95	95	54	52	690
E. N. Cent. ..	22	11	82	187	164	108	111	70	77	832
Minn. ....	1	-	-	4	3	-	1	4	6	19
Iowa.....	1	1	3	6	7	5	7	4	12	46
Mo. ....	1	-	-	1	1	1	5	4	15	28
N. Dak. ....	1	1	-	-	1	2	2	5	-	12
S. Dak. ....	1	-	-	1	2	3	1	1	2	11
Nebr. ....	1	-	-	-	1	1	-	1	1	5
Kans. ....	3	-	1	1	1	2	1	2	3	14
W. N. Cent. ..	9	2	4	13	16	14	17	21	39	135
Va. ....	-	-	-	1	-	-	-	-	1	2
N. C. ....	-	-	-	-	-	-	-	-	1	1
S. C. ....	1	-	-	-	-	-	-	-	-	1
Ga. ....	-	-	-	-	-	-	1	-	-	1
Fla. ....	1	-	-	-	-	-	-	-	-	1
S. Atl. ....	2	-	-	1	-	-	1	-	2	6
Ky. ....	1	1	1	-	-	1	-	2	12	18
Tenn. ....	1	1	-	-	1	-	1	7	8	19
Ala. ....	-	-	-	-	-	1	2	-	-	3
Miss. ....	1	-	1	1	-	1	2	1	2	9
Ark. ....	-	1	1	1	1	-	1	-	2	7
La. ....	2	-	1	-	-	-	-	-	-	3
Okla. ....	1	-	-	-	-	2	-	-	2	5
Tex. ....	1	-	1	-	-	3	1	-	-	6
S. Cent. ....	7	3	5	2	2	8	7	10	26	70
Mont. ....	1	-	1	-	1	-	1	1	-	5
Idaho.....	1	1	-	3	4	-	-	5	7	21
Wyo. ....	1	-	-	-	-	-	-	-	1	2
Colo. ....	1	1	1	2	1	-	-	-	-	6
Ariz. ....	-	-	1	-	-	-	-	-	-	1
Utah.....	1	1	3	3	2	2	-	-	1	13
Nevada.....	-	1	-	-	-	-	-	-	-	1
Mount. ....	5	4	6	8	8	2	1	6	9	49
Wash. ....	2	-	-	2	1	1	1	1	-	8
Oreg. ....	1	-	1	4	1	1	11	-	1	20
Calif. ....	3	-	2	4	4	1	1	-	2	17
Pac. ....	6	-	3	10	6	3	13	1	3	45
U. S. ....	81	32	127	243	203	142	162	113	179	1,282

Table 7.--Plants making CREAMED COTTAGE CHEESE:  
Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)									Total cr. cottage cheese plants
	Less than 10	10- 24	25- 49	50- 99	100- 249	250- 499	500- 749	750- 999	1,000 and over	
	Number of plants									
Maine.....	3	-	1	4	1	-	-	-	1	10
N. H. ....	-	2	1	-	1	-	-	-	-	4
Vt. ....	-	-	1	-	1	1	-	-	3	6
Mass. ....	3	2	1	2	-	2	-	-	-	10
Conn. ....	-	3	3	1	3	1	-	-	-	11
N. Eng. ....	6	7	7	7	6	4	-	-	4	41
N. Y. ....	5	5	9	8	9	3	1	1	17	58
N. J. ....	-	5	1	1	3	1	-	-	-	11
Pa. ....	21	12	22	20	15	12	1	-	9	112
Middle Atl. ...	26	22	32	29	27	16	2	1	26	181
Ohio.....	14	24	22	22	25	14	6	6	17	150
Ind. ....	5	1	4	2	7	9	3	5	7	43
Ill. ....	4	6	3	9	5	6	2	1	11	47
Mich. ....	7	10	8	11	9	4	3	2	15	69
Wis. ....	8	3	3	4	7	3	1	-	11	40
E. N. Cent. ...	38	44	40	48	53	36	15	14	61	349
Minn. ....	4	1	1	1	2	-	-	-	5	14
Iowa.....	7	9	2	3	5	3	1	2	2	34
Mo. ....	1	-	1	2	1	1	1	-	9	16
N. Dak. ....	1	1	-	-	-	2	-	-	-	4
S. Dak. ....	1	2	-	-	3	1	-	-	1	8
Nebr. ....	1	1	2	-	4	1	1	-	5	15
Kans. ....	2	1	-	2	7	5	6	1	4	28
W. N. Cent. ...	17	15	6	8	22	13	9	3	26	119
D. C. ....	-	-	-	-	-	-	-	-	1	1
Del. ....	-	2	-	-	-	-	-	-	-	2
Md. ....	1	-	2	2	-	-	2	2	3	12
Va. ....	1	-	4	8	8	2	-	1	1	25
W. Va. ....	2	4	4	1	2	1	-	3	-	17
N. C. ....	-	3	5	-	3	3	2	-	2	18
S. C. ....	1	-	-	-	-	1	-	-	-	2
Ga. ....	2	2	1	2	3	1	2	-	1	14
Fla. ....	-	-	-	-	1	-	-	2	2	5
S. Atl. ....	7	11	16	13	17	8	6	8	10	96
Ky. ....	1	3	3	5	4	5	-	-	3	24
Tenn. ....	2	-	2	2	4	-	5	2	3	20
Ala. ....	1	1	1	1	4	2	1	-	-	11
Miss. ....	1	1	4	1	2	-	-	-	-	9
Ark. ....	-	-	-	-	-	2	1	1	-	4
La. ....	-	1	3	2	2	1	1	1	1	12
Okla. ....	-	1	2	-	-	-	3	-	8	14
Tex. ....	1	3	1	1	6	6	6	2	5	31
S. Cent. ....	6	10	16	12	22	16	17	6	20	125
Mont. ....	4	2	3	3	3	2	-	2	-	19
Idaho.....	1	-	1	1	4	-	2	1	-	10
Wyo. ....	1	-	-	2	2	2	-	-	-	7
Colo. ....	6	6	2	5	4	4	2	1	3	33
N. Mex. ....	1	1	-	-	-	1	-	-	2	5
Ariz. ....	-	-	-	-	1	-	1	1	3	6
Utah.....	2	-	1	1	1	1	1	-	2	9
Nev. ....	-	1	-	1	-	1	-	-	-	3
Mount. ....	15	10	7	13	15	11	6	5	10	92
Wash. ....	1	1	1	2	8	4	3	-	7	27
Oreg. ....	-	1	1	3	2	3	3	1	4	18
Calif. ....	2	2	1	2	1	3	1	1	16	29
Pac. ....	3	4	3	7	11	10	7	2	27	74
Alaska.....	2	-	-	1	1	-	-	-	-	4
Hawaii.....	1	1	1	-	-	-	1	1	-	5
U. S. ....	121	124	128	138	174	114	63	40	184	1,086

Table 8.-Plants making NONFAT DRY MILK for human food:  
Number by production-size groups, by States, 1963

State	1963 ANNUAL PRODUCTION (Thousand pounds)									Total nonfat dry milk plants
	Less than 500	500-999	1,000-2,499	2,500-4,999	5,000-7,499	7,500-9,999	10,000-14,999	15,000-19,999	20,000 and over	
	<u>Number of plants</u>									
Vt. ....	-	2	2	1	-	1	1	-	-	7
Mass. ....	-	-	-	1	-	1	-	-	-	2
Conn. ....	-	-	1	-	-	-	-	-	-	1
N. Y. ....	5	3	8	10	4	2	2	3	1	38
N. J. ....	1	-	-	-	-	-	-	-	-	1
Pa. ....	5	2	6	6	1	-	2	-	-	22
Ohio. ....	6	4	5	4	-	-	2	-	-	21
Ind. ....	2	1	3	3	-	-	-	-	-	9
Ill. ....	1	1	4	1	-	-	-	-	-	7
Mich. ....	5	1	3	2	7	1	-	-	1	20
Wis. ....	11	2	7	12	8	8	6	4	6	64
Minn. ....	2	2	3	12	16	6	8	5	7	61
Iowa. ....	2	3	5	8	5	5	3	1	2	34
Mo. ....	-	-	-	2	3	-	-	-	-	5
N. Dak. ....	2	1	1	-	-	1	-	-	-	5
S. Dak. ....	-	-	1	3	1	1	1	-	-	7
Nebr. ....	4	1	1	2	1	1	-	-	-	10
Kans. ....	-	-	2	5	1	-	-	-	-	8
Md. ....	-	1	2	-	-	-	1	-	-	4
Va. ....	-	1	3	-	-	-	-	-	-	4
Ga. ....	1	-	-	-	-	-	-	-	-	1
Ky. ....	2	1	-	1	2	-	-	-	-	6
Tenn. ....	-	-	2	-	1	-	-	-	-	3
Miss. ....	-	1	2	-	-	-	-	-	-	3
La. ....	-	-	-	1	-	-	-	-	-	1
Okla. ....	1	2	2	-	-	-	-	-	-	5
Tex. ....	1	1	2	-	-	-	-	-	-	4
Idaho. ....	-	-	2	2	-	-	2	-	1	7
Wyo. ....	-	-	1	-	-	-	-	-	-	1
Utah. ....	2	1	1	2	-	-	-	-	-	6
Nev. ....	1	-	-	-	-	-	-	-	-	1
Wash. ....	2	-	3	2	1	-	1	-	-	9
Oreg. ....	2	2	2	-	-	-	-	-	-	6
Calif. ....	5	1	4	7	4	-	-	1	-	22
U. S. ....	63	34	78	87	55	27	29	14	18	405

Table 9.-Plants making DRY WHOLE MILK:  
Number by production-size groups, by States, 1963

State	1963 ANNUAL PRODUCTION (Thousand pounds)								Total dry whole milk plants
	Less than 100	100-249	250-499	500-999	1,000-1,999	2,000-3,499	3,500-4,999	5,000 and over	
	<u>Number of plants</u>								
Vt. ....	-	-	-	-	-	-	1	-	1
N. Y. ....	1	1	-	-	-	-	-	2	4
Pa. ....	1	-	-	-	-	-	-	1	2
Ohio. ....	-	-	-	-	-	-	-	1	1
Ind. ....	-	-	1	-	-	-	-	-	1
Ill. ....	1	-	-	-	-	2	2	-	5
Mich. ....	1	1	1	-	1	2	-	1	7
Wis. ....	1	1	3	2	2	-	1	-	10
Minn. ....	1	-	1	-	-	2	-	1	5
Iowa. ....	-	-	-	-	1	-	-	-	1
S. Dak. ....	-	-	-	-	1	-	-	-	1
Nebr. ....	2	-	-	-	-	-	-	-	2
Md. ....	1	-	-	-	-	-	-	-	1
Ky. ....	1	-	-	-	-	-	-	-	1
Utah. ....	-	2	-	-	-	-	-	-	2
Nev. ....	-	-	-	1	-	-	-	-	1
Oreg. ....	-	-	1	-	-	-	-	-	1
Calif. ....	-	-	2	-	-	-	-	-	2
U. S. ....	10	5	9	3	5	6	4	6	48



Table 10.-Plants making ICE CREAM (counterfreezers excluded):  
Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand gallons)										Total ice cream mfg. plants
	Less than 25	25-49	50-99	100-249	250-499	500-749	750-999	1,000-1,999	2,000-2,999	3,000 and over	
	Number of plants										
Maine.....	9	4	1	1	-	-	-	-	2	-	17
N. H. ....	10	4	2	2	1	-	-	-	-	-	19
Vt. ....	5	-	1	1	-	-	-	-	-	-	7
Mass. ....	46	21	15	9	-	3	2	4	3	2	105
R. I. ....	12	1	1	2	-	3	-	-	-	-	19
Conn. ....	14	9	5	5	3	1	-	1	-	1	39
N. Eng. ....	96	39	25	20	4	7	2	5	5	3	206
N. Y. ....	129	23	15	20	12	3	3	8	3	7	223
N. J. ....	19	5	7	5	3	2	1	5	1	1	49
Pa. ....	58	28	30	27	11	3	3	4	2	8	174
Middle Atl. ....	206	56	52	52	26	8	7	17	6	16	446
Ohio.....	67	24	10	19	17	4	4	6	3	2	156
Ind. ....	18	12	11	15	8	3	1	1	3	2	74
Ill. ....	26	19	13	17	11	3	1	11	1	3	105
Mich. ....	62	17	21	28	7	3	1	5	1	3	148
Wis. ....	66	24	15	12	9	2	5	3	-	2	138
E. N. Cent. ....	239	96	70	91	52	15	12	26	8	12	621
Minn. ....	22	4	7	12	5	2	1	6	2	-	61
Iowa.....	67	12	8	10	2	-	-	1	2	-	102
Mo. ....	21	12	5	11	4	5	3	5	-	-	66
N. Dak. ....	15	6	5	-	4	-	1	-	-	-	31
S. Dak. ....	10	-	3	6	-	-	1	-	-	-	20
Nebr. ....	16	4	3	3	3	-	1	1	2	-	33
Kans. ....	30	5	6	7	3	4	1	-	-	-	56
W. N. Cent. ....	181	43	37	49	21	11	8	13	6	-	369
D. C. ....	2	1	1	-	1	-	-	2	-	1	8
Del. ....	4	-	-	-	-	-	-	-	-	1	5
Md. ....	8	5	1	3	6	2	1	2	2	-	30
Va. ....	4	1	5	5	2	4	2	3	1	-	27
W. Va. ....	3	-	3	3	-	-	1	2	-	-	12
N. C. ....	8	6	5	6	3	4	-	3	2	-	37
S. C. ....	5	-	2	2	1	-	-	2	-	-	12
Ga. ....	8	2	-	9	3	3	1	-	1	-	27
Fla. ....	6	3	1	6	3	-	3	4	2	1	29
S. Atl. ....	48	18	18	34	19	13	8	18	8	3	187
Ky. ....	11	8	5	6	2	-	-	2	-	-	34
Tenn. ....	16	2	3	9	4	2	3	5	-	-	44
Ala. ....	7	-	5	7	4	-	-	2	1	-	26
Miss. ....	7	2	7	3	2	1	1	-	-	-	23
Ark. ....	5	2	2	4	1	2	-	-	-	-	16
La. ....	8	1	4	6	4	-	-	3	-	-	26
Okla. ....	11	3	3	4	3	5	-	-	-	-	29
Tex. ....	23	8	14	12	18	5	4	5	-	-	89
S. Cent. ....	88	26	43	51	38	15	8	17	1	-	287
Mont. ....	28	6	3	4	2	-	-	-	-	-	43
Idaho.....	8	3	5	4	-	-	1	1	-	-	22
Wyo. ....	9	1	3	1	-	-	-	-	-	-	14
Colo. ....	17	10	3	5	3	3	-	1	1	-	43
N. Mex. ....	3	2	3	1	1	1	-	-	-	-	11
Ariz. ....	1	2	1	1	3	1	-	1	-	-	10
Utah.....	10	1	3	2	2	3	-	1	-	-	22
Nev. ....	-	-	2	1	1	-	-	-	-	-	4
Mount. ....	76	25	23	19	12	8	1	4	1	-	169
Wash. ....	15	7	5	8	1	3	-	3	-	1	43
Oreg. ....	9	8	4	7	1	2	1	1	-	-	33
Calif. ....	33	10	9	13	10	5	6	9	3	5	103
Pac. ....	57	25	18	28	12	10	7	13	3	6	179
Alaska.....	2	2	-	1	-	-	-	-	-	-	5
Hawaii.....	1	1	-	1	4	-	-	-	-	-	7
U. S. ....	994	331	286	346	188	87	53	113	38	40	2,476

Table 11.-All plants making FROZEN DAIRY PRODUCTS (counterfreezers excluded):  
Number by production-size groups, by States, 1963 1/

State and division	1963 ANNUAL PRODUCTION (Thousand gallons)										Total frozen products plants
	Less than 25	25-49	50-99	100-249	250-499	500-749	750-999	1,000-1,999	2,000-2,999	3,000 and over	
	<u>Number of plants</u>										
Maine.....	8	5	1	1	-	-	-	-	1	1	17
N. H. ....	10	4	2	2	1	-	-	-	-	-	19
Vt. ....	6	-	1	1	-	-	-	-	-	-	8
Mass. ....	44	23	11	13	-	1	3	5	2	3	105
R. I. ....	12	1	1	2	-	1	2	-	-	-	19
Conn. ....	14	8	6	5	3	1	-	1	-	1	39
N. Eng. ....	94	41	22	24	4	3	5	6	3	5	207
N. Y. ....	128	22	18	18	13	4	3	6	5	7	224
N. J. ....	19	5	6	6	2	3	-	6	1	1	49
Pa. ....	57	29	30	27	11	3	1	6	1	10	175
Middle Atl. ....	204	56	54	51	26	10	4	18	7	18	448
Ohio.....	62	25	14	16	19	2	6	7	2	3	156
Ind. ....	16	14	7	16	7	5	1	3	1	4	74
Ill. ....	24	16	18	13	13	4	1	11	2	3	105
Mich. ....	62	21	18	30	9	3	2	5	1	3	154
Wis. ....	72	23	14	13	7	4	5	4	-	2	144
E. N. Cent. ....	236	99	71	88	55	18	15	30	6	15	633
Minn. ....	26	4	5	13	7	3	-	7	1	1	67
Iowa.....	64	16	9	8	3	1	-	1	2	-	104
Mo. ....	20	10	3	9	9	3	4	7	1	-	66
N. Dak. ....	15	7	4	-	-	-	-	1	-	-	31
S. Dak. ....	11	-	3	6	-	-	-	1	-	-	21
Nebr. ....	14	5	2	4	3	1	-	2	1	1	33
Kans. ....	24	11	4	5	7	1	3	1	-	-	56
W. N. Cent. ....	174	53	30	45	33	9	7	20	5	2	378
D. C. ....	2	1	1	-	1	-	-	2	-	1	8
Del. ....	4	-	-	-	-	-	-	-	-	1	5
Md. ....	8	5	1	3	5	1	2	3	1	1	30
Va. ....	4	1	4	5	3	-	5	3	2	-	27
W. Va. ....	3	-	2	2	2	-	-	3	-	-	12
N. C. ....	4	7	4	8	3	1	2	3	2	3	37
S. C. ....	5	-	1	-	4	-	-	1	1	-	12
Ga. ....	6	3	1	4	7	1	2	2	-	1	27
Fla. ....	5	2	3	6	3	-	1	3	3	3	29
S. Atl. ....	41	19	17	28	28	3	12	20	9	10	187
Ky. ....	10	5	6	8	3	-	-	1	1	-	34
Tenn. ....	13	5	-	7	5	3	1	8	2	-	44
Ala. ....	5	1	4	3	6	3	1	1	1	1	26
Miss. ....	5	3	4	4	4	1	-	2	-	-	23
Ark. ....	6	2	1	4	1	3	-	1	-	-	18
La. ....	6	1	6	2	4	4	1	2	1	-	27
Okla. ....	5	3	6	3	1	5	2	4	-	-	29
Tex. ....	6	6	22	13	13	10	7	8	7	-	92
S. Cent. ....	56	26	49	44	37	29	12	27	12	1	293
Mont. ....	26	7	3	3	4	-	-	-	-	-	43
Idaho.....	7	1	5	7	-	-	1	1	-	-	22
Wyo. ....	9	1	3	1	-	-	-	-	-	-	14
Colo. ....	16	6	6	5	5	1	2	-	2	-	43
N. Mex. ....	1	3	4	-	1	2	-	-	-	-	11
Ariz. ....	1	1	1	2	2	1	1	1	-	-	10
Utah.....	9	1	3	3	2	1	2	1	-	-	22
Nev. ....	-	-	-	3	-	1	-	-	-	-	4
Mount. ....	69	20	25	24	14	6	6	3	2	-	169
Wash. ....	12	11	2	8	4	1	2	2	1	1	44
Oreg. ....	9	4	5	9	3	1	-	3	-	-	34
Calif. ....	28	11	13	8	10	9	3	12	5	8	107
Pac. ....	49	26	20	25	17	11	5	17	6	9	185
Alaska.....	2	2	-	1	-	-	-	-	-	-	5
Hawaii.....	1	1	-	1	1	3	-	-	-	-	7
U. S. ....	926	343	288	331	215	92	66	141	50	60	2,512

1/ Includes ice cream, ice milk, sherbet, other frozen dairy products, and Mellorine. (Excludes water ices).

Table 12.-All plants making CONDENSED and EVAPORATED MILK for human food:  
Number by production-size groups, by States, 1963 <sup>1/</sup>

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)										Total evap. and cond. plants
	Less than 500	500-999	1,000-2,499	2,500-4,999	5,000-9,999	10,000-19,999	20,000-29,999	30,000-39,999	40,000-49,999	50,000 and over	
	<u>Number of plants</u>										
Maine.....	1	-	-	-	-	1	-	-	-	-	2
Vt. ....	1	1	1	1	-	-	-	-	-	-	4
Mass. ....	2	-	-	1	-	-	-	-	-	-	3
Conn. ....	1	-	-	-	-	-	-	-	-	-	1
N. Eng. ....	5	1	1	2	-	1	-	-	-	-	10
N. Y. ....	7	6	9	4	3	3	3	1	-	-	36
Pa. ....	14	2	4	2	7	7	2	-	-	1	39
Middle Atl. ..	21	8	13	6	10	10	5	1	-	1	75
Ohio.....	13	1	2	2	5	6	-	-	1	1	31
Ind. ....	1	1	1	1	1	2	2	-	-	-	9
Ill. ....	1	1	3	3	2	1	1	-	-	1	13
Mich. ....	5	2	4	2	3	2	-	-	1	-	19
Wis. ....	5	3	2	-	5	8	-	1	-	2	26
E. N. Cent. ..	25	8	12	8	16	19	3	1	2	4	98
Minn. ....	2	-	-	1	1	1	-	-	-	-	5
Iowa.....	3	1	2	1	-	-	-	-	-	-	7
Mo. ....	1	1	6	-	1	-	-	1	-	1	11
N. Dak. ....	-	1	-	-	-	-	-	-	-	-	1
S. Dak. ....	-	-	-	1	-	-	-	-	-	-	1
Nebr. ....	3	1	1	-	-	-	-	-	-	-	5
Kans. ....	1	-	1	1	2	3	-	1	-	-	9
W. N. Cent. ..	10	4	10	4	4	4	-	2	-	1	39
Md. ....	2	-	-	-	1	-	2	1	-	-	6
Va. ....	2	2	1	1	1	-	2	-	1	-	10
W. Va. ....	-	-	-	-	-	-	-	1	-	-	1
N. C. ....	3	-	-	1	-	-	-	1	-	-	5
S. C. ....	-	-	-	-	-	-	1	-	-	-	1
Ga. ....	1	-	1	1	-	-	-	-	-	-	3
S. Atl. ....	8	2	2	3	2	-	5	3	1	-	26
Ky. ....	3	-	3	1	-	1	-	1	-	2	11
Tenn. ....	1	1	-	1	2	2	-	1	-	2	10
Miss. ....	-	-	-	-	1	2	2	-	-	-	5
Ark. ....	-	-	1	-	-	-	-	1	-	-	2
La. ....	1	1	1	-	1	-	-	-	-	-	4
Okla. ....	3	1	2	1	-	1	-	-	-	-	8
Tex. ....	3	1	1	4	-	2	-	-	-	-	11
S. Cent. ....	11	4	8	7	4	8	2	3	-	4	51
Idaho.....	-	2	-	-	-	-	-	-	1	-	3
Colo. ....	-	1	1	1	-	1	-	-	-	-	4
N. Mex. ....	-	-	1	-	-	-	-	-	-	-	1
Ariz. ....	1	1	2	-	-	-	-	-	-	-	4
Utah.....	1	-	1	3	-	-	-	1	-	-	6
Mount. ....	2	4	5	4	-	1	-	1	1	-	18
Wash. ....	8	-	4	1	1	1	-	-	-	1	16
Oreg. ....	-	-	1	1	1	-	-	-	-	-	3
Calif. ....	3	2	4	4	7	3	2	1	-	2	28
Pac. ....	11	2	9	6	9	4	2	1	-	3	47
U. S. ....	93	33	60	40	45	47	17	12	4	13	364

<sup>1/</sup> Includes all evaporated and condensed bulk and case for human consumption.

Table 13.--Plants making EVAPORATED MILK, whole, unsweetened, case goods:  
Number by production-size groups, by States, 1963

State and division	1963 ANNUAL PRODUCTION (Thousand pounds)									Total evap. milk plants
	Less than 5,000	5,000- 9,999	10,000- 14,999	15,000- 19,999	20,000- 24,999	25,000- 34,999	35,000- 44,999	45,000- 54,999	55,000 and over	
	Number of plants									
N. Y. ....	-	-	-	-	-	-	2	-	-	2
Pa. ....	-	-	-	-	2	-	-	-	1	3
Middle Atl. ....	-	-	-	-	2	-	2	-	1	5
Ohio.....	-	1	-	4	-	-	1	1	1	8
Ind. ....	-	-	-	-	1	-	-	-	-	1
Ill. ....	1	-	-	-	1	-	-	1	-	3
Mich. ....	-	-	-	-	-	-	1	-	-	1
Wis. ....	1	-	2	2	-	-	1	1	-	7
E. N. Cent. ....	2	1	2	6	2	-	3	3	1	20
Mo. ....	-	-	-	-	-	-	1	-	1	2
Kans. ....	-	1	-	-	-	1	-	-	-	2
W. N. Cent. ....	-	1	-	-	-	1	1	-	1	4
Md. ....	-	-	-	-	-	1	-	-	-	1
Va. ....	-	-	-	-	-	2	1	-	-	3
W. Va. ....	-	-	-	-	-	1	-	-	-	1
N. C. ....	-	-	-	-	-	1	-	-	-	1
S. C. ....	-	-	-	-	1	-	-	-	-	1
S. Atl. ....	-	-	-	-	1	5	1	-	-	7
Ky. ....	-	-	-	-	-	-	1	-	2	3
Tenn. ....	-	1	-	-	-	-	1	-	2	4
Miss. ....	-	-	1	-	1	-	-	-	-	2
Ark. ....	-	-	-	-	-	1	-	-	-	1
La. ....	1	-	-	-	-	-	-	-	-	1
Tex. ....	-	-	-	1	-	-	-	-	-	1
S. Cent. ....	1	1	1	1	1	1	2	-	4	12
Idaho.....	-	-	-	-	-	-	-	1	-	1
Colo. ....	-	-	1	-	-	-	-	-	-	1
Utah.....	2	-	-	-	-	1	-	-	-	3
Mount. ....	2	-	1	-	-	1	-	1	-	5
Wash. ....	-	-	-	1	-	-	-	-	1	2
Oreg. ....	-	1	-	-	-	-	-	-	-	1
Calif. ....	-	1	-	3	2	-	-	-	1	7
Pac. ....	-	2	-	4	2	-	-	-	2	10
U. S. ....	5	5	4	11	8	8	9	4	9	63

#### Geographic Distribution of Plants Manufacturing Dairy Products, 1963

Over one-half of all the butter plants in the United States in 1963 were concentrated in the West North Central Region, with about one-fourth of the total in Minnesota. The heaviest concentration of creameries continues to be in the Upper Mississippi Valley area, which includes parts of Minnesota, Wisconsin, and Iowa.

Wisconsin, with 57 percent of the total number, still has the largest concentration of American cheese plants. Other States -- in order of number of plants -- were Iowa, Illinois, and New York.

Except for Rhode Island, all States had 1 or more plants making creamed cottage cheese. The largest plant concentration, 14 percent of the total, was in Ohio; Pennsylvania, with 10 percent, was second.

Only 34 States had plants producing nonfat dry milk for human food. Of these total plants, almost one-half were concentrated in 4 States: Wisconsin, Minnesota, New York, and Iowa.

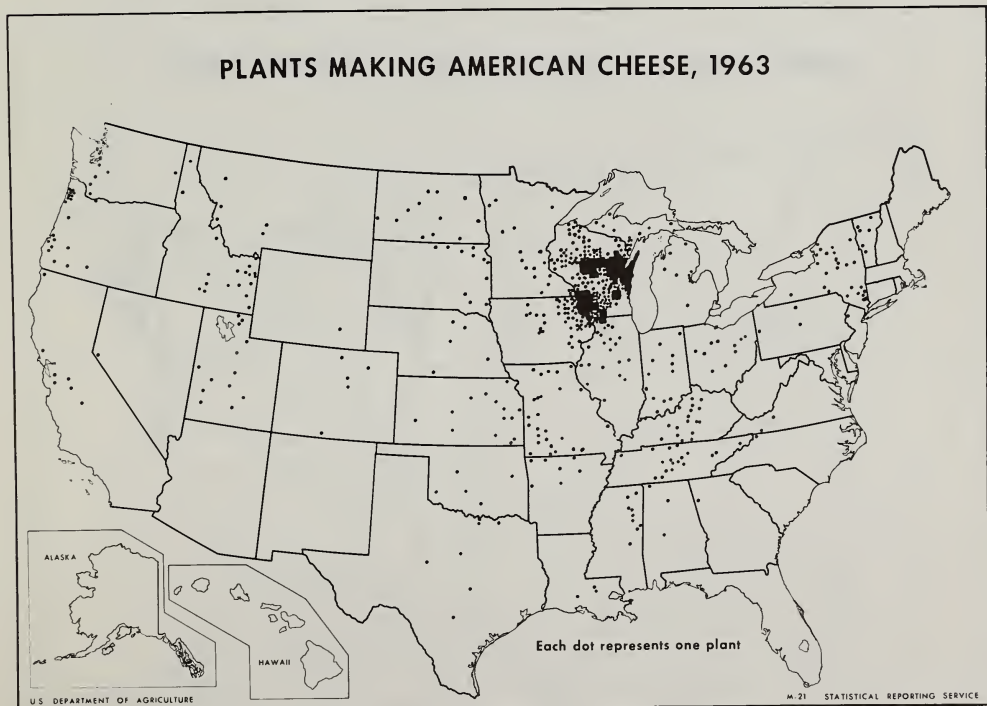
Plants making ice cream are distributed throughout all 50 States. New York, with 223 plants, was the leading State in number of plants. Pennsylvania, with 174, was second, followed by Ohio, Michigan, and Wisconsin.



## PLANTS MAKING BUTTER, 1963



## PLANTS MAKING AMERICAN CHEESE, 1963



## PLANTS MAKING SWISS CHEESE, 1963



## PLANTS MAKING ITALIAN CHEESE, ALL TYPES, 1963



## PLANTS MAKING CHEESE (EXCLUDING COTTAGE), 1963



## PLANTS MAKING CREAMED COTTAGE CHEESE, 1963



## PLANTS MAKING EVAPORATED WHOLE MILK (CASE GOODS), 1963



## PLANTS MAKING CONDENSED OR EVAPORATED MILK FOR HUMAN FOOD, 1963





## PLANTS MAKING NONFAT DRY MILK FOR HUMAN FOOD, 1963



## PLANTS MAKING ICE CREAM (COUNTER FREEZERS EXCLUDED), 1963



## PLANTS MAKING MELLORINE (COUNTER FREEZERS EXCLUDED), 1963



## PLANTS MAKING FROZEN DAIRY PRODUCTS (COUNTER FREEZERS EXCLUDED), 1963

